

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

POWER OF ATTORNEY

Sir:

The undersigned, assignee of the entire interest in and to the attached list of issued patents by assignment documents recorded with the United States Patent and Trademark Office at the indicated reel and frame numbers, hereby appoints the firm of Withrow & Terranova, P.L.L.C., Customer No. 27820, comprising Benjamin S. Withrow, Reg. No. 40,876, Steven N. Terranova, Reg. No. 43,185, John R. Witcher, III, Reg. No. 39,877, Richard C. Bevins, Reg. No. 51,468, Anthony J. Josephson, Reg. No. 45,742, and Eric P. Jensen, Reg. No. 37,647 as my attorneys and/or agents with full power of substitution and revocation, to prosecute this application, to make alterations and amendments therein, to receive the patent, and to transact all business in the Patent and Trademark Office connected therewith.

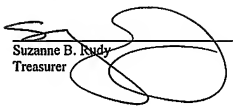
Furthermore, in accordance with 37 CFR §3.73(b), the undersigned hereby states that the documentary evidence of a chain of title from the original owner to the assignee, i.e. assignment document referenced above, has been reviewed and the undersigned certifies that, to the best of assignee's knowledge and belief, title is in assignee who seeks to prosecute this application.

---

**PLEASE ADDRESS ALL COMMUNICATIONS AND TELEPHONE  
CALLS TO CUSTOMER NUMBER 27820: WITHROW & TERRANOVA,  
P.L.L.C., 100 REGENCY FOREST DRIVE, SUITE 160, CARY, NORTH  
CAROLINA 27518 (919) 238-2300.**

RF Micro Devices, Inc.

BY:

  
Suzanne B. Rudy  
Treasurer

Date: 7-9-08  
Matter No. 2867-565

---

Matter No	Title	Serial No	File Date	PatentNo	Issue Date	Recorded
2867-626	SERIES TERMINATED CLOCK DESKEWING APPARATUS	08/317,675	10/5/1994	5,661,427	8/26/1997	Reel 020690 Frame 0066
2867-627	CLOCK DESKEWING APPARATUS INCLUDING THREE-INPUT PHASE DETECTOR	08/317,674	10/5/1994	5,594,376	1/14/1997	Reel 020690 Frame 0066
2867-628	ADAPTIVE EQUALIZER CIRCUIT	08/102,695	8/5/1993	5,828,700	10/27/1998	Reel 020690 Frame 0066
2867-629	DUAL 10BASE-T AND 100BASE-TX TRANSMISSION TERMINATION CIRCUIT	08/624,189	3/28/1996	5,838,723	11/17/1998	Reel 020690 Frame 0066
2867-630	FUSE-TRIMMED TANK CIRCUIT FOR AN INTEGRATED VOLTAGE-CONTROLLED OSCILLATOR	09/680,396	10/4/2000	6,445,257	9/3/2002	Reel 020690 Frame 0066
2867-631	METHOD AND APPARATUS FOR MODULATION OF A VOLTAGE CONTROLLED OSCILLATOR	09/684,475	10/4/2000	6,353,370	3/5/2002	Reel 020690 Frame 0066
2867-632	INTEGRATED RADIO TRANSCIVER	09/721,555	11/22/2000	7,076,217	7/11/2006	Reel 020690 Frame 0066
2867-633	FM DEMODULATOR FOR A LOW IF RECEIVER	09/721,367	11/22/2000	6,985,541	1/10/2006	Reel 020690 Frame 0066
2867-634	TOPOLOGY FOR A SINGLE ENDED INPUT DUAL BALANCED MIXER	09/721,528	11/22/2000	7,027,792	4/11/2006	Reel 020690 Frame 0066
2867-639A	PARALLEL ADAPTIVE EQUALIZER CIRCUIT	08/795,450	2/3/1997	5,844,941	12/1/1998	Reel 021202 Frame 0861
2867-640	MEDIA INDEPENDENT INTERFACE BETWEEN IEEE 802.3 (ETHERNET) BASED PHYSICAL LAYER DEVICES	09/280,251	3/29/1999	6,363,432	3/26/2002	Reel 020690 Frame 0066
2867-641	ACTIVE POLYPHASE FILTER WITH TRANSDUCTOR CROSS-COUPLING OF FILTER SECTIONS	09/721,370	11/22/2000	6,441,682	8/27/2002	Reel 020690 Frame 0066
2867-647	IRIS DATA RECOVERY ALGORITHMS	09/715,556	11/17/2000	6,987,816	1/17/2006	Reel 020690 Frame 0066
2867-648	VOLTAGE CONTROLLED RING OSCILLATOR DELAY	09/244,279	2/3/1999	6,222,423	4/24/2001	Reel 020690 Frame 0066
2867-649	HIGH PERFORMANCE CLM TO CMOS CONVERTER	09/292,095	4/14/1999	6,211,699	4/3/2001	Reel 020690 Frame 0066
2867-657	PRE-POST DISTORTION AMPLIFIER	08/649,841	5/16/1996	5,781,069	7/14/1998	Reel 020927 Frame 0907
2867-658	QUASI-MESH GATE STRUCTURE FOR LATERAL RF MOS DEVICES	09/020,256	2/7/1998	5,900,663	5/4/1999	Reel 021172 Frame 0388
2867-659	SOURCE CONNECTION STRUCTURE FOR LATERAL RF MOS DEVICES	09/020,257	2/7/1998	5,949,104	9/7/1999	Reel 020927 Frame 0907
2867-659A	LATERAL RF MOS DEVICE HAVING A COMBINED SOURCE STRUCTURE (Divisional)	09/289,370	4/8/1999	6,034,415	3/7/2000	Reel 020927 Frame 0907
2867-660	LATERAL RF MOS DEVICE WITH IMPROVED BREAKDOWN VOLTAGE	09/413,912	10/4/1999	6,271,552	8/7/2001	Reel 020927 Frame 0907
2867-662	GLUE DEPOSIT DEVICE FOR POWER PRINTED CIRCUIT BOARD	09/122,456	7/24/1998	6,045,653	4/4/2000	Reel 020927 Frame 0907

Matter No	Title	Serial No	File Date	PatentNo	Issue Date	Recorded
2867-663	METHOD FOR FABRICATING A LATERAL RF MOS DEVICE WITH AN NON-DIFFUSION SOURCE-BACKSIDE CONNECTION	09/072,393	5/4/1998	6,048,772	4/11/2000	Reel 020927 Frame 0907
2867-664	FABRICATION OF LATERAL RF MOS DEVICES WITH ENHANCED RF PROPERTIES	09/366,612	7/31/1999	6,063,678	5/16/2000	Reel 020927 Frame 0907
2867-665	RF POWER MOSFET DEVICE WITH EXTENDED LINEAR REGION OF TRANSCONDUCTANCE CHARACTERISTIC AT LOW DRAIN CURRENT	09/097,532	6/15/1998	6,064,088	5/16/2000	Reel 020927 Frame 0907
2867-666	METHOD FOR FABRICATING LATERAL RF MOS DEVICES WITH ENHANCED RF PROPERTIES	09/293,431	4/16/1999	6,190,978	2/20/2001	Reel 020927 Frame 0907
2867-667	LATERAL RF MOS DEVICE WITH IMPROVED DRAIN STRUCTURE	09/410,934	10/4/1999	6,222,233	4/24/2001	Reel 020927 Frame 0907
2867-668A1	HIGH POWER HYBRID MODULES ASSEMBLY USING VACUUM OVEN FOR PERMANENT ELECTRICAL CONNECTION (Continuation)	09/567,422	5/9/2000	6,318,622	11/20/2001	Reel 020927 Frame 0907
2867-669	MICROWAVE FIELD EFFECT TRANSISTOR STRUCTURE ON SILICON CARBIDE SUBSTRATE	10/156,221	5/25/2002	6,521,923	2/18/2003	Reel 020927 Frame 0907
2867-670	MULTIPLE CONDUCTIVE PLUG STRUCTURE FOR LATERAL RF MOS DEVICES	10/033,839	12/26/2001	6,686,627	2/3/2004	Reel 020927 Frame 0907
2867-670A	MULTIPLE CONDUCTIVE PLUG STRUCTURE INCLUDING AT LEAST ONE CONDUCTIVE PLUG REGION AND AT LEAST ONE BETWEEN-CONDUCTIVE-PLUG REGION FOR LATERAL RF MOS DEVICES (Divisional)	10/360,365	2/8/2003	6,762,456	7/13/2004	Reel 020927 Frame 0907
2867-671	MICROWAVE FIELD EFFECT TRANSISTOR STRUCTURE	10/156,605	5/25/2002	6,831,332	12/14/2004	Reel 020927 Frame 0907
2867-672	DISTORTION CANCELLATION FOR RF AMPLIFIERS USING COMPLEMENTARY BIASING CIRCUITRY	10/360,028	2/5/2003	6,831,511	12/14/2004	Reel 020927 Frame 0907
2867-673	MICROWAVE TRANSISTOR STRUCTURE HAVING STEP DRAIN REGION	10/410,908	4/9/2003	6,838,731	1/4/2005	Reel 020927 Frame 0907
2867-689	COMPACT CABLE TUNER/TRANSCIVER	09/302,897	4/30/1999	6,160,571	12/12/2000	Reel 021029 Frame 0569
2867-690	OSCILLATOR WITH POWER CONSERVATION MODE	09/354,003	7/15/1999	6,163,228	12/19/2000	Reel 021029 Frame 0569
2867-697	WIDE DYNAMIC RANGE TRANSMITTANCE AMPLIFIER	09/712,533	11/14/2000	6,404,281	6/11/2002	Reel 021172 Frame 0388
2867-697A	WIDE DYNAMIC RANGE TRANSMITTANCE AMPLIFIER	10/154,943	5/24/2002	6,504,429	1/7/2003	Reel 021172 Frame 0388

Matter No	Title	Serial No	File Date	PatentNo	Issue Date	Recorded
2867-698	PEAKING CONTROL FOR WIDEBAND LASER DRIVER APPLICATIONS	09/723,298	11/27/2000	6,480,067	11/12/2002	Reel 021172 Frame 0388
2867-698A	PEAKING CONTROL FOR WIDEBAND LASER DRIVER APPLICATIONS	10/222,137	8/15/2002	6,750,717	6/15/2004	Reel 021172 Frame 0388
2867-699	LASER DRIVER PRE-EMPHASIS AND DE-EMPHASIS METHOD AND/OR ARCHITECTURE WITH TUNING AND DUTY CYCLE CONTROL	09/723,037	11/27/2000	6,373,346	4/16/2002	Reel 021172 Frame 0388
2867-700	THERMALLY DISTRIBUTED DARLINGTON AMPLIFIER	09/888,865	6/25/2001	6,611,172	8/26/2003	Reel 021172 Frame 0388
2867-701	TOI AND POWER COMPRESSION BIAS NETWORK	09/951,686	9/11/2001	6,529,080	3/4/2003	Reel 021172 Frame 0388
2867-702	QUADRANT SWITCHING METHOD FOR PHASE SHIFTER	10/023,785	12/18/2001	6,665,353	12/16/2003	Reel 021172 Frame 0388
2867-703	METHOD AND/OR APPARATUS FOR CONTROLLING A COMMON-BASE AMPLIFIER	10/123,503	4/16/2002	6,639,473	10/28/2003	Reel 021172 Frame 0388
2867-704	COMMON-BASE AMPLIFIER WITH HIGH INPUT OVERLOAD AND TUNABLE TRANSMIMPEDANCE	10/132,351	4/25/2002	6,590,455	7/8/2003	Reel 021172 Frame 0388
2867-705	HIGH VOLTAGE-WIDE BAND AMPLIFIER	10/173,296	6/17/2002	6,861,909	3/1/2005	Reel 021172 Frame 0388
2867-706	MULTI-OUTPUT AMPLIFIER WITH ISOLATION BETWEEN OUTPUTS	10/378,233	2/28/2003	6,967,531	11/22/2005	Reel 021172 Frame 0388
2867-707	DIRECT COUPLED DISTRIBUTED AMPLIFIER	10/304,593	11/26/2002	6,727,762	4/27/2004	Reel 021172 Frame 0388
2867-708	DARLINGTON CASCADE	10/368,530	2/18/2003	6,806,778	10/19/2004	Reel 021172 Frame 0388
2867-709	ACTIVELY MATCHED CENTER-TAPPED MARCHAND BALANCED MIXER	10/425,335	4/29/2003	7,020,452	3/28/2006	Reel 021172 Frame 0388
2867-710	SELF-BIASED DARLINGTON AMPLIFIER	10/623,070	7/18/2003	6,927,634	8/9/2005	Reel 021172 Frame 0388
2867-710A	SELF-BIASED DARLINGTON AMPLIFIER	11/115,794	4/27/2005	6,972,630	12/6/2005	Reel 021172 Frame 0388
2867-711	FERRITE CRYSTAL RESONATOR COUPLING STRUCTURE	09/997,468	11/29/2001	6,727,775	4/27/2004	Reel 021172 Frame 0388
2867-712	LINEARIZED DARLINGTON AMPLIFIER	10/742,098	12/19/2003	6,933,787	8/23/2005	Reel 021172 Frame 0388
2867-713	DYNAMIC FEEDBACK LINEARIZATION	11/103,149	4/11/2005	7,218,175	5/15/2007	Reel 021172 Frame 0388
2867-714	HIGH IMPEDANCE RATIO WIDEBAND TRANSFORMER CIRCUIT	08/527,861	9/14/1995	5,619,172	4/8/1997	Reel 021172 Frame 0388
2867-714A	UNBALANCED TO BALANCED HIGH IMPEDANCE RATIO WIDEBAND TRANSFORMER CIRCUIT	08/755,705	11/25/1996	5,742,213	4/21/1998	Reel 021172 Frame 0388
2867-715	OSCILLATOR VOLTAGE REGULATOR	08/680,037	7/15/1996	5,675,478	10/7/1997	Reel 021172 Frame 0388
2867-716	ORTHOGONALLY MOUNTED SUBSTRATE BASED RESONATORS	09/093,763	6/9/1998	5,867,069	2/2/1999	Reel 021172 Frame 0388

Matter No	Title	Serial No	File Date	PatentNo	Issue Date	Recorded
2867-717	MULTIPLE SINGLE LAYER MONOLITHIC PASSIVE INTEGRATED CIRCUITS AND METHOD	08/757,293	11/27/1996	5,903,431	5/11/1999	Reel 021172 Frame 0388
2867-718	OSCILLATOR SELECTIVELY OPERABLE WITH A PARALLEL TUNED OR A SERIES TUNED RESONANT CIRCUIT	09/305,190	5/4/1999	5,982,243	11/9/1999	Reel 021172 Frame 0388
2867-719	FIRST AND SECOND OSCILLATOR CIRCUITS SELECTIVELY COUPLED THROUGH PASSIVE OUTPUT CIRCUIT TO A LOAD	09/304,651	5/4/1999	5,999,061	12/7/1999	Reel 021172 Frame 0388
2867-721	CONTINUOUSLY ADJUSTABLE RESONATOR	09/094,124	6/9/1998	5,856,769	1/5/1999	Reel 021172 Frame 0388